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val. no.

From: Prats, Frank
Sent: Wednesday, August 13, 2003 3:12 PM
To: STIC-ILL
Subject: reference request for 10/045,539

459512

Please send me the following two references for this case. Thanks!!

Francisco C. Prats ("Frank")
Patent Examiner
AU 1651
CM1-11A07 (mailbox CM1 11B15)
703-308-3665

Reference 1:

ACCESSION NUMBER: 1998:646205 CAPLUS
DOCUMENT NUMBER: 129:327797
TITLE: Laser micromanipulation systems as universal tools in cellular and molecular biology and in medicine
AUTHOR(S): Schutze, K.; Posl, H.; Lahr, G.
CORPORATE SOURCE: Laser Laboratory and Molecular Biology, First Medical Department, Academic Hospital Munchen-Harlaching, I. Med. Abteilung, Munchen, D-81545, Germany
SOURCE: Cellular and Molecular Biology (Paris) (1998), 44(5), 735-746
CODEN: CMOBEF; ISSN: 0145-5680
PUBLISHER: C.M.B. Association
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English

AB A review with many refs. The UV-laser microbeam has been established as a valuable tool in a wide area of mol. biol. as well as in medical research and applications. This system allows to cut or fuse microscopically small specimen. An important application of the cutting-laser is laser microbeam microdissection (LMM) combined with laser pressure catapulting (LPC), which allows to procure single cells or small homogeneous cell areas for subsequent mol. anal. in an entirely "non-contact" manner. With LMM minute tissue areas, single cells or chromosomes are microdissected and sepd. from their surroundings. Subsequently, LPC ejects the dissectates directly into the cap of a sample tube without any mech. contact. This enables the rapid procurement of homogeneous specimen from less than one up to several hundreds of micrometers in diam. without encroachment of the adjacent region. The mRNA information of the selected specimen as well as of the remaining probe are well preserved, as demonstrated with laser isolated samples from a routinely prepd. tissue section of a differentiated colorectal adenocarcinoma. Reverse transcription of specific mRNA coding for cytoplasmic .beta.-actin and subsequent hemi-nested PCR amplification was not impaired. Any kind of tissue, as well as single cells from different sources and even subcellular structures can be captured using this laser method. Wherever homogeneous samples are required to analyze cell or chromosome-specific genetic alterations such as in cancer research or prenatal diagnosis this unique and rapid laser micropreparation method will become a key technol. of great value.

113876200

Reference 2:

ACCESSION NUMBER: 1998:473861 BIOSIS
DOCUMENT NUMBER: PREV199800473861
TITLE: Laser micromanipulation systems as universal tools in cellular and molecular biology and in medicine.
AUTHOR(S): Schuetze, K.; Poesl, H.; Lahr, G.
CORPORATE SOURCE: Laser Lab. Molecular Biol., First Med. Dep., Academic Hosp. Muenchen-Harlaching, I. Med. Abt., Sanatoriumsplatz 2, D-81545 Muenchen Germany

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(SPEC/Microdissection AND CLAS/435/6): 63 patents.

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PAT. NO. Title

- 1 [6,066,459](#) [Method for simultaneous detection of multiple fluorophores for in situ hybridization and multicolor chromosome painting and banding](#)
- 2 [6,066,453](#) [Array-based detection of genetic alterations associated with disease](#)
- 3 [6,054,268](#) [Method and system for genotyping](#)
- 4 [6,043,037](#) [Rapid method for measuring clastogenic fingerprints using fluorescence in situ hybridization](#)
- 5 [6,040,139](#) [Laser cell purification system](#)
- 6 [6,033,849](#) [Method for isolation of extrachromosomal amplified genes](#)
- 7 [6,025,127](#) [Nucleic acid mutation detection in histologic tissue](#)
- 8 [6,013,486](#) [Method for selection of insertion mutants](#)
- 9 [6,007,994](#) [Multiparametric fluorescence in situ hybridization](#)
- 10 [5,981,178](#) [Methods for screening for mutations at various positions in the introns and exons of the cystic fibrosis gene](#)
- 11 [5,976,790](#) [Comparative Genomic Hybridization \(CGH\)](#)
- 12 [5,972,667](#) [Method and apparatus for activating a thermo-enzyme reaction with electromagnetic energy](#)
- 13 [5,965,362](#) [Comparative genomic hybridization \(CGH\)](#)
- 14 [5,958,688](#) [Characterization of mRNA patterns in neurites and single cells for medical diagnosis and therapeutics](#)
- 15 [5,925,519](#) [Genetic alterations associated with prostate cancer](#)
- 16 [5,922,543](#) [Detection as chromosomal translocations by extending and ligating differentially-labeled probes Hybridized on different sides of a break-point](#)
- 17 [5,919,624](#) [Methods for detecting cervical cancer](#)
- 18 [5,906,919](#) [Method for chromosomes classification](#)
- 19 [5,876,933](#) [Method and system for genotyping](#)
- 20 [5,876,927](#) [Nucleic acid diagnostic assay for Charcot-Marie-Tooth Disease Type 1B](#)

- 21 [5,874,222 M6P/IGF-II receptor tumor suppressor gene](#)
- 22 [5,871,926 Sensitive method for measurement of telomeric DNA content in human tissues](#)
- 23 [5,856,097 Comparative genomic hybridization \(CGH\)](#)
- 24 [5,856,089 Method for the detection of chromosome structural abnormalities by in situ hybridization to fixed tissue](#)
- 25 [5,851,769 Quantitative DNA fiber mapping](#)
- 26 [5,843,657 Isolation of cellular material under microscopic visualization](#)
- 27 [5,843,649 Method of identifying clonal cell samples using heteroduplex generators](#)
- 28 [5,843,644 Isolation of cellular material under microscopic visualization using an adhesive/extraction reagent tipped probe](#)
- 29 [5,834,203 Method for classification of pixels into groups according to their spectra using a plurality of wide band filters and hardware therefore](#)
- 30 [5,834,190 Chromosome 18Q loss and prognosis in colorectal cancer](#)
- 31 [5,817,462 Method for simultaneous detection of multiple fluorophores for in situ hybridization and multicolor chromosome painting and banding](#)
- 32 [5,814,444 Methods for making and using single-chromosome amplification libraries](#)
- 33 [5,792,610 Method for conducting multiparametric fluorescence in situ hybridization](#)
- 34 [5,776,683 Methods for identifying genes amplified in cancer cells](#)
- 35 [5,776,677 Methods of detecting cystic fibrosis gene by nucleic acid hybridization](#)
- 36 [5,759,781 Multiparametric fluorescence in situ hybridization](#)
- 37 [5,756,696 Compositions for chromosome-specific staining](#)
- 38 [5,753,505 Neuronal progenitor cells and uses thereof](#)
- 39 [5,744,306 Methods for nucleic acid detection, sequencing, and cloning using exonuclease](#)
- 40 [5,731,171 Sequence independent amplification of DNA](#)
- 41 [5,731,156 Use of anti-embryonic hemoglobin antibodies to identify fetal cells](#)
- 42 [5,728,527 Detection of hybridized oligonucleotide probes in living cells](#)
- 43 [5,723,593 Diagnostic assay for Charcot Marie Tooth Disease Type 1B](#)
- 44 [5,723,290 Methods for profiling mRNA expression in neurites](#)
- 45 [5,721,098 Comparative genomic hybridization](#)
- 46 [5,719,024 Method for chromosome classification by decorrelation statistical analysis and hardware therefore](#)
- 47 [5,712,097 Tumor suppressor gene, DPC4](#)
- 48 [5,702,886 Chromosome 18Q loss and prognosis in colorectal cancer](#)
- 49 [5,693,470 Diagnostic method employing MSH2 nucleic acids](#)
- 50 [5,693,464 Method for generating chromosome region-specific probes](#)

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PAT. NO. Title

- 51 [5,665,549 Comparative genomic hybridization \(CGH\)](#)
- 52 [5,665,540 Multicolor in situ hybridization methods for genetic testing](#)
- 53 [5,658,730 Methods of human prostate cancer diagnosis](#)
- 54 [5,654,148 Multicolor in situ hybridization methods for genetic testing](#)
- 55 [5,599,670 .beta.-glucuronidase and glucuronide permease gene system](#)
- 56 [5,580,728 Method and system for genotyping](#)
- 57 [5,545,524 Compositions and methods for chromosome region-specific probes](#)
- 58 [5,541,067 Method and system for genotyping](#)
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- 60 [5,487,970 Compositions and methods for detecting gene rearrangements and translocations](#)
- 61 [5,449,604 Chromosome 14 and familial Alzheimers disease genetic markers and assays](#)
- 62 [5,427,932 Repeat sequence chromosome specific nucleic acid probes and methods of preparing and using](#)
- 63 [5,194,600 Genes which participate in .beta.-glucan assembly and use thereof](#)

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